

**TYPICAL CHARACTERISTICS
ON
APD-2-2G8G-SFF-30W-SP**

**PMI MODEL NUMBER APD-2-2G8G-SFF-30W-SP IS A TWO-WAY POWER DIVIDER
FEATURING HIGH ISOLATION, LOW INSERTION LOSS, LOW VSWR, AND EXCELLENT PHASE
AND AMPLITUDE BALANCE.**



Reported By	Noor Azhar
Tested By	Eric Kretz
Date	October 28th 2025

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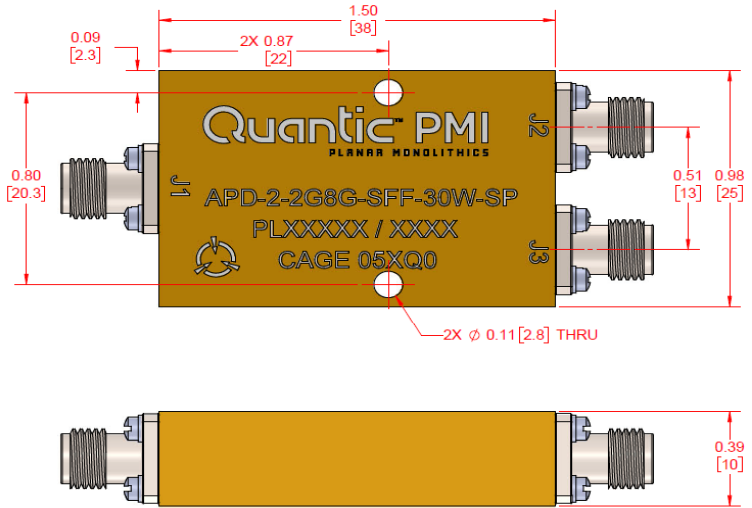
PRODUCT FEATURE

DESCRIPTION:

PMI MODEL NUMBER APD-2-2G8G-SFF-30W-SP IS A TWO-WAY POWER DIVIDER THAT OPERATES OVER THE 2.0 TO 8.0 GHz FREQUENCY RANGE.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 8.0 GHz
- INSERTION LOSS:..... 0.6 dB MAX (ABOVE 3.01 dB SPLIT)
- VSWR:..... 1.3:1 (J1) MAX
1.2:1 (J2, J3) MAX
- ISOLATION:..... 20 dB MIN
- AMPLITUDE BALANCE:..... ±0.2 dB MAX
- PHASE BALANCE:..... ±2° MAX
- POWER HANDLING:..... FORWARD: 30 WATTS MAX
REVERSED: 1 WATT MAX
- IMPEDANCE:..... 50 OHMS
- CONNECTORS:..... SMA FEMALE (MECHANICALLY CAPTIVATED)
- FINISH:..... GOLD PLATED



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +95°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- VIBRATION:..... NASA GSFC-STD-7000B TABLE 2.4-3, ACCEPTANCE LEVELS
- SHOCK:..... MIL-STD-810 H, METHOD 513.8
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. G
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/29/2019	

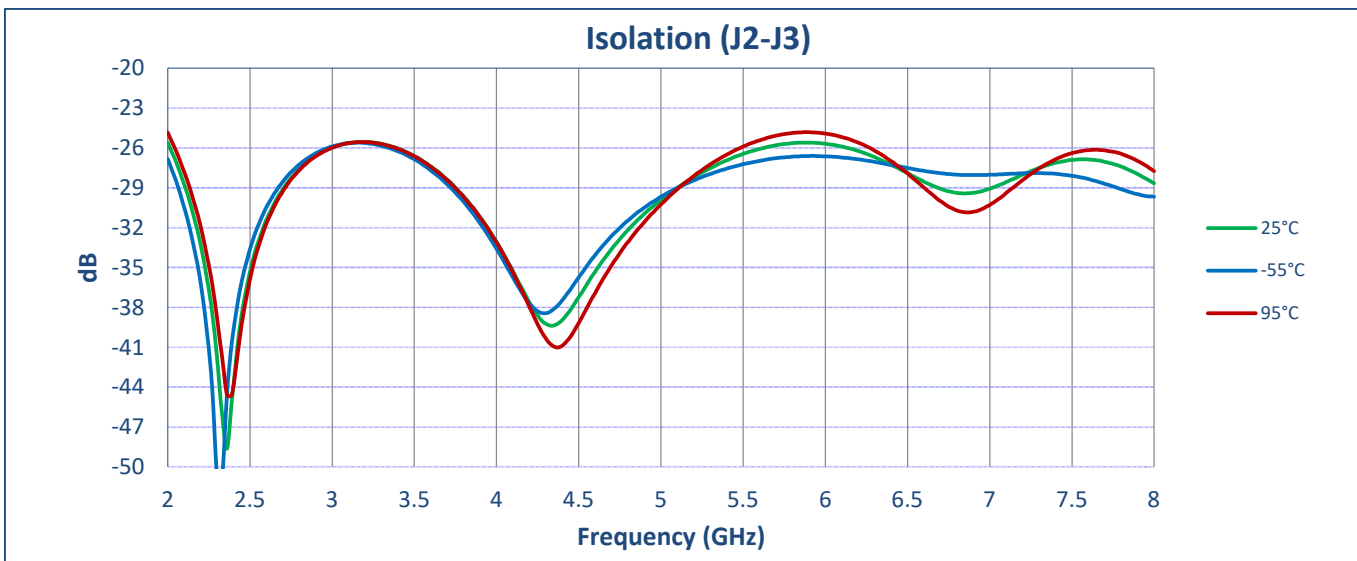
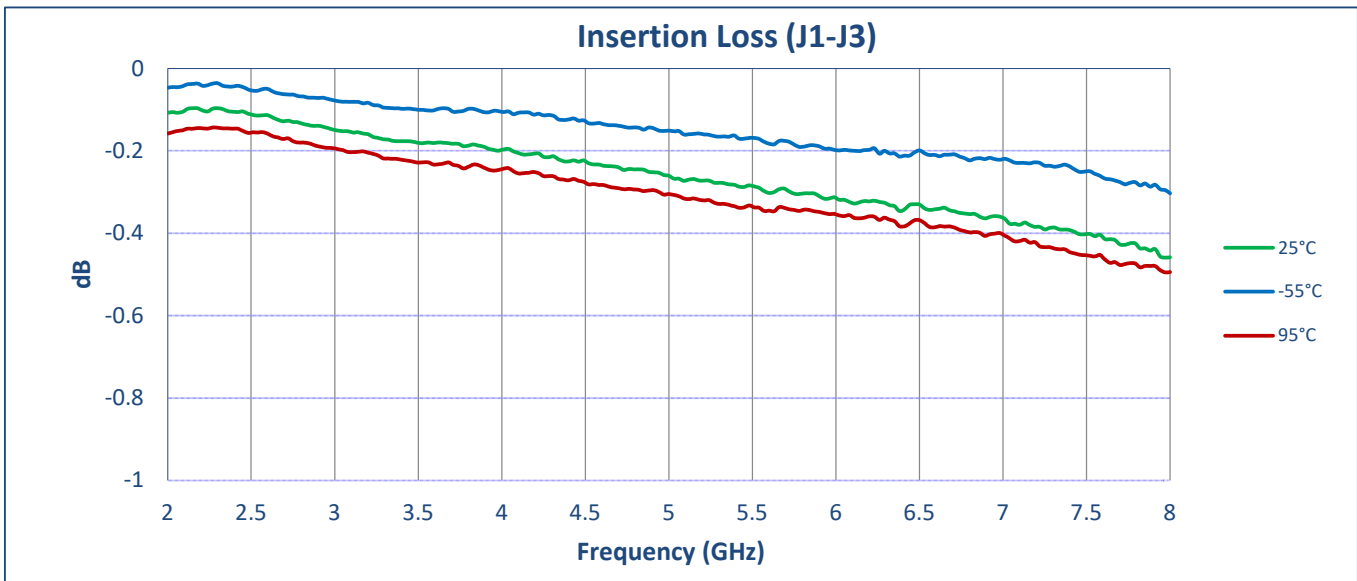
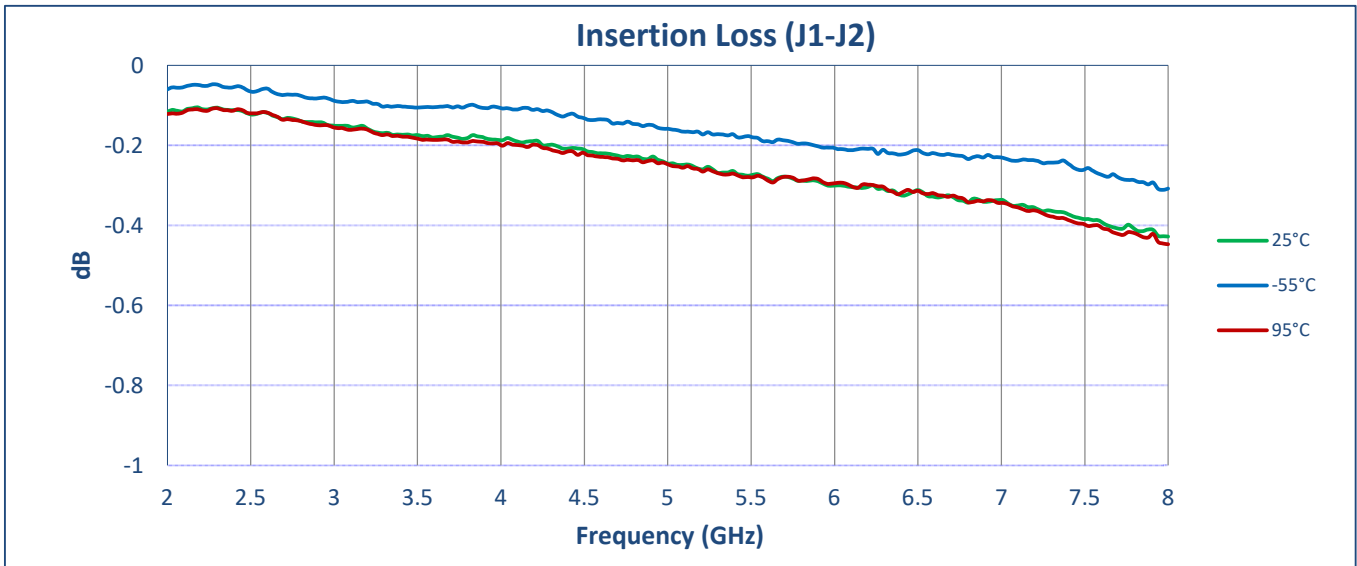
PART NO.		DATE		TITLE	
APPROVALS		DATE		OUTLINE	
DESIGNER		DATE		APD-2-2G8G-SFF-30W-SP	
SAZHAR		4/29/2019		REV. A1	
CHECKED		DATE		SCALE 3:1	
B		05XQ0		27051720	
SHEET NO.		TOWS NO.		SHEET 1 OF 1	

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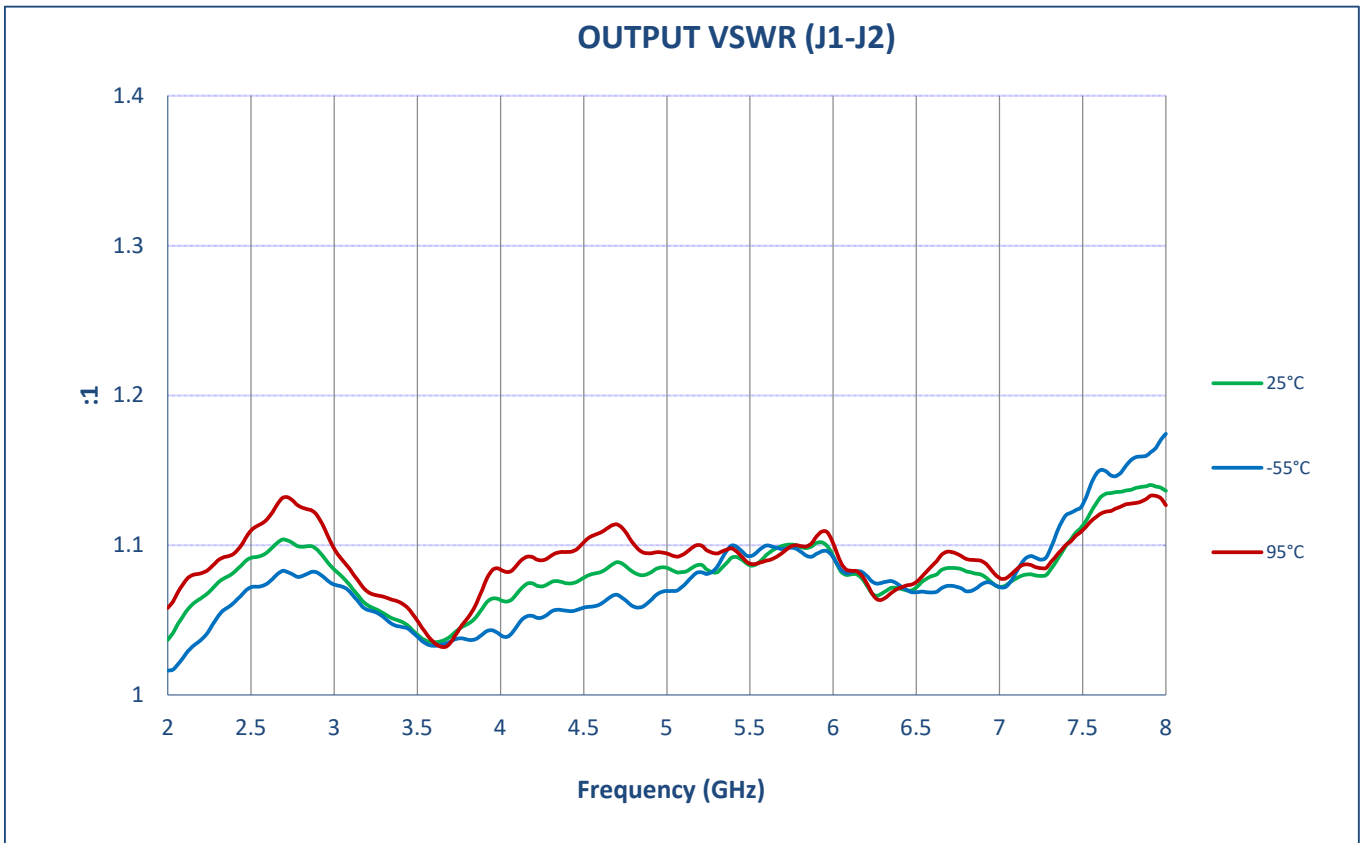
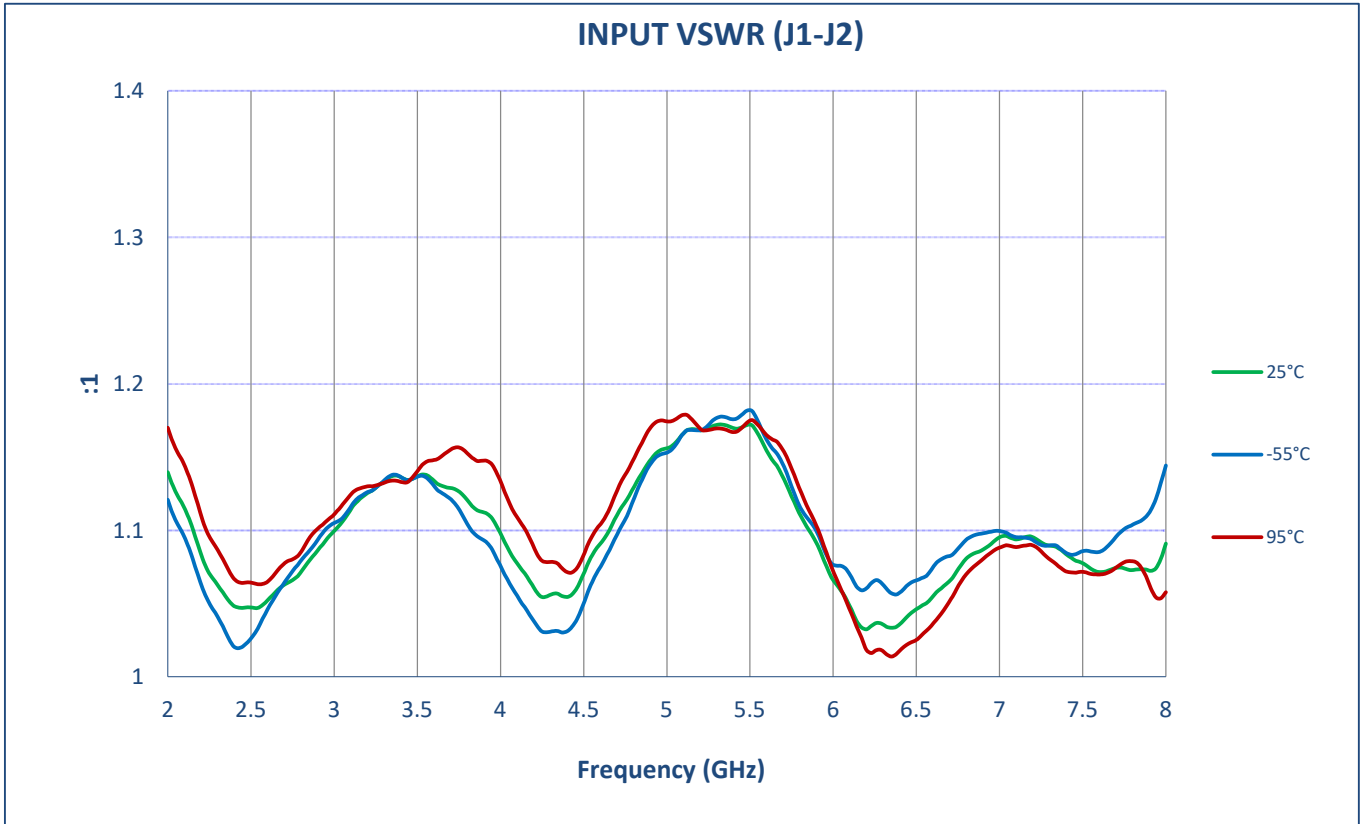
TEST DATA

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-55°C	95°C
1	Frequency Range	2.0 to 8.0 GHz	2.0 to 8.0 GHz		
2	Insertion Loss	0.6 dB Max. (Above 3.01 dB Split)	0.46 dB	0.31 dB	0.5 dB
3	VSWR: In/Out	1.3:1 (J1) Max. 1.2:1 (J2,J3) Max.	1.18:1 J1 1.14:1 J2 1.15:1 J3	1.18:1 J1 1.17:1 J2 1.18:1 J3	1.18:1 J1 1.13:1 J2 1.14:1 J3
4	Isolation	20 dB Min.	25.6 dB	25.6 dB	24.8 dB
5	Phase Balance	±2° Max	0° Max -0.55° Min	0.17° Max -0.12° Min	0.17° Max 0° Min
6	Amplitude Balance	±0.2 dB Max.	0.03dB Max -0.01dB Min	0dB Max -0.02dB Min	0.07dB Max 0 dB Min
7	Power Handling	Forward: 30 W Max. Reversed: 1 W Max.	Forward: 30 W Reversed: 1 W	Forward: 30 W Reversed: 1 W	Forward: 30 W Reversed: 1 W

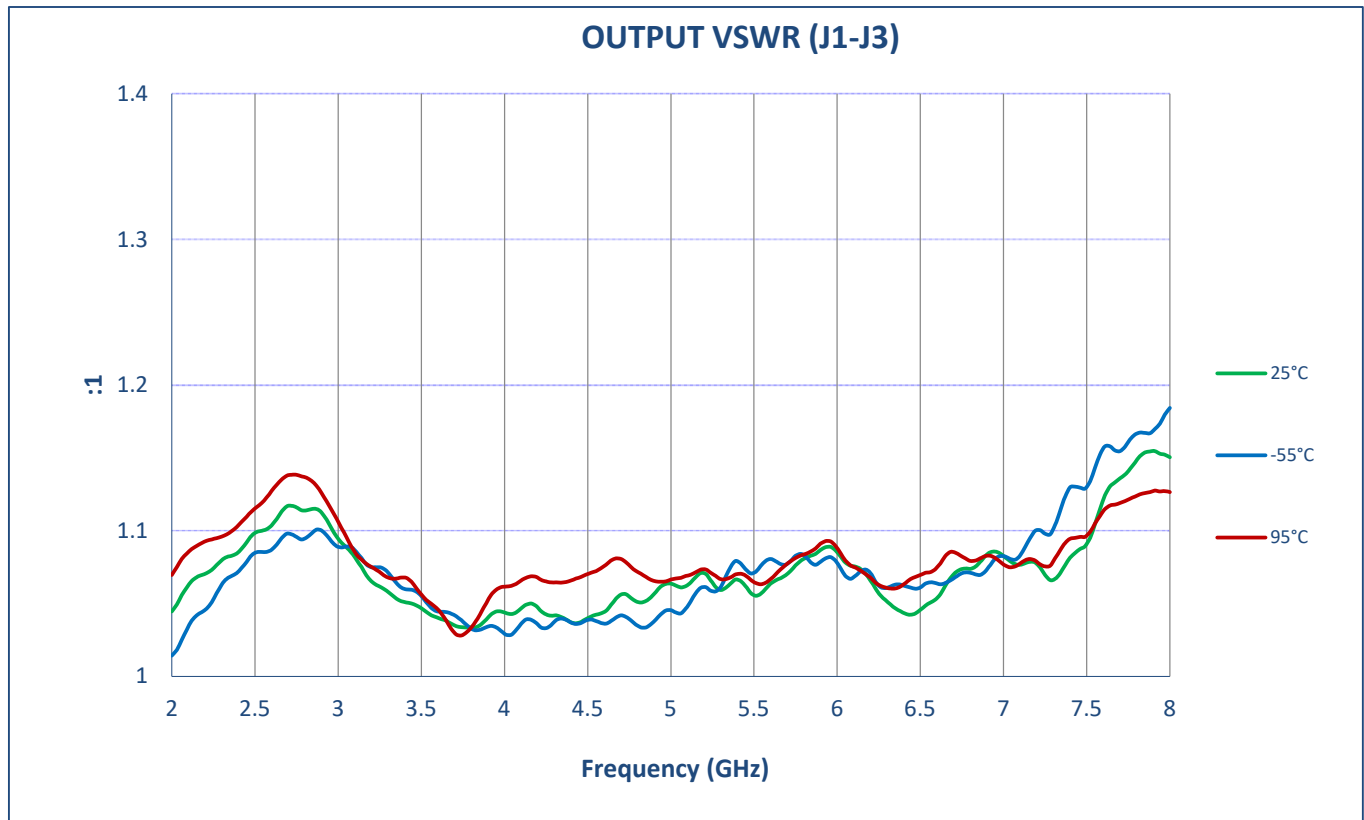
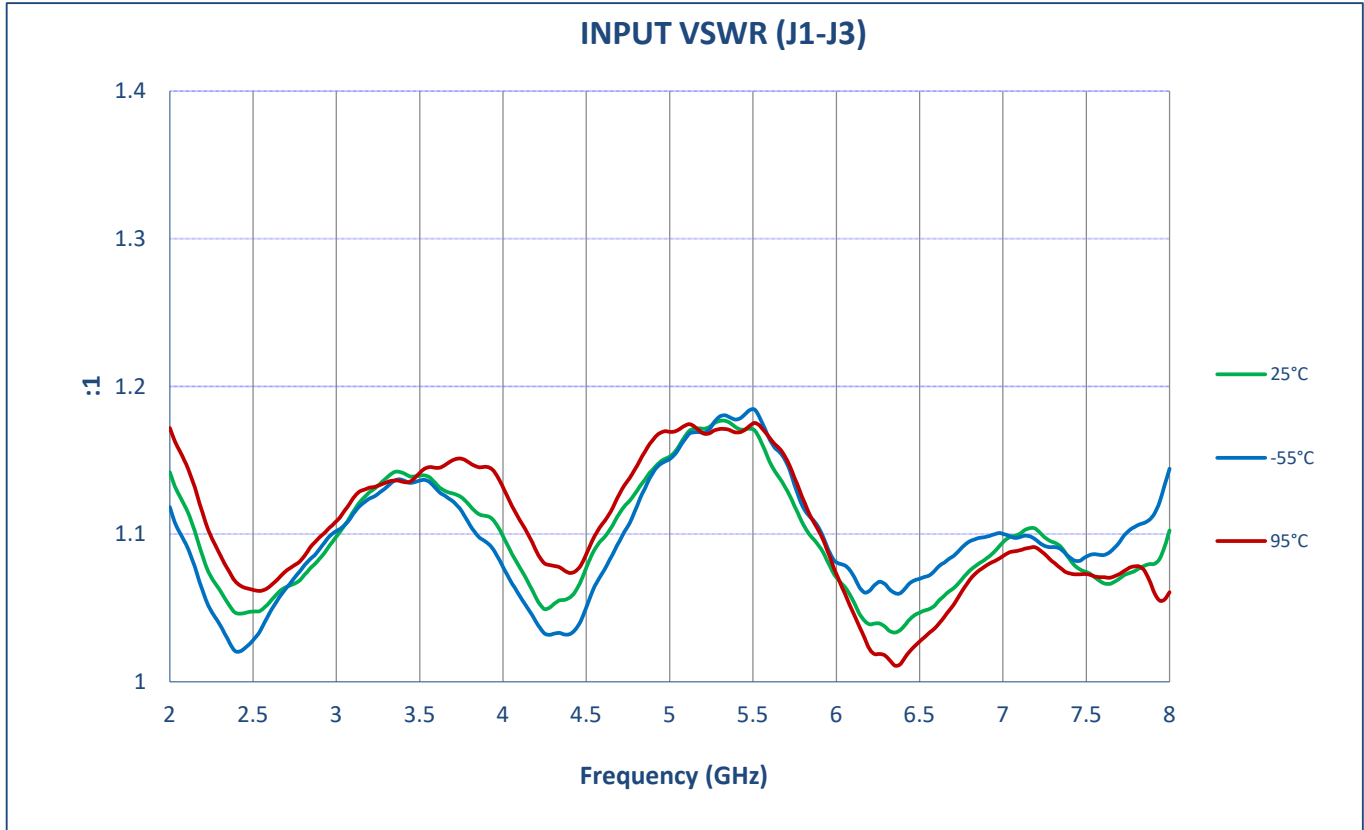
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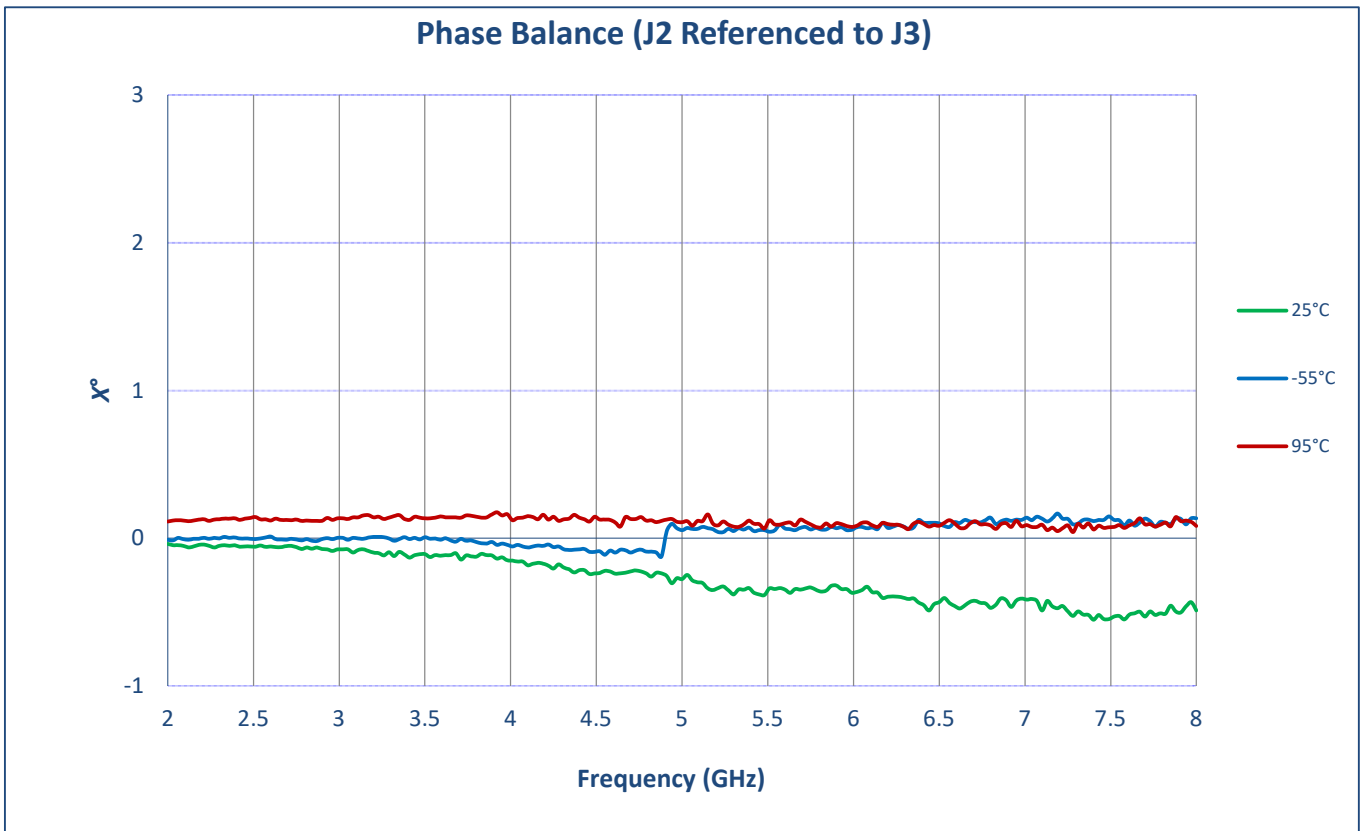
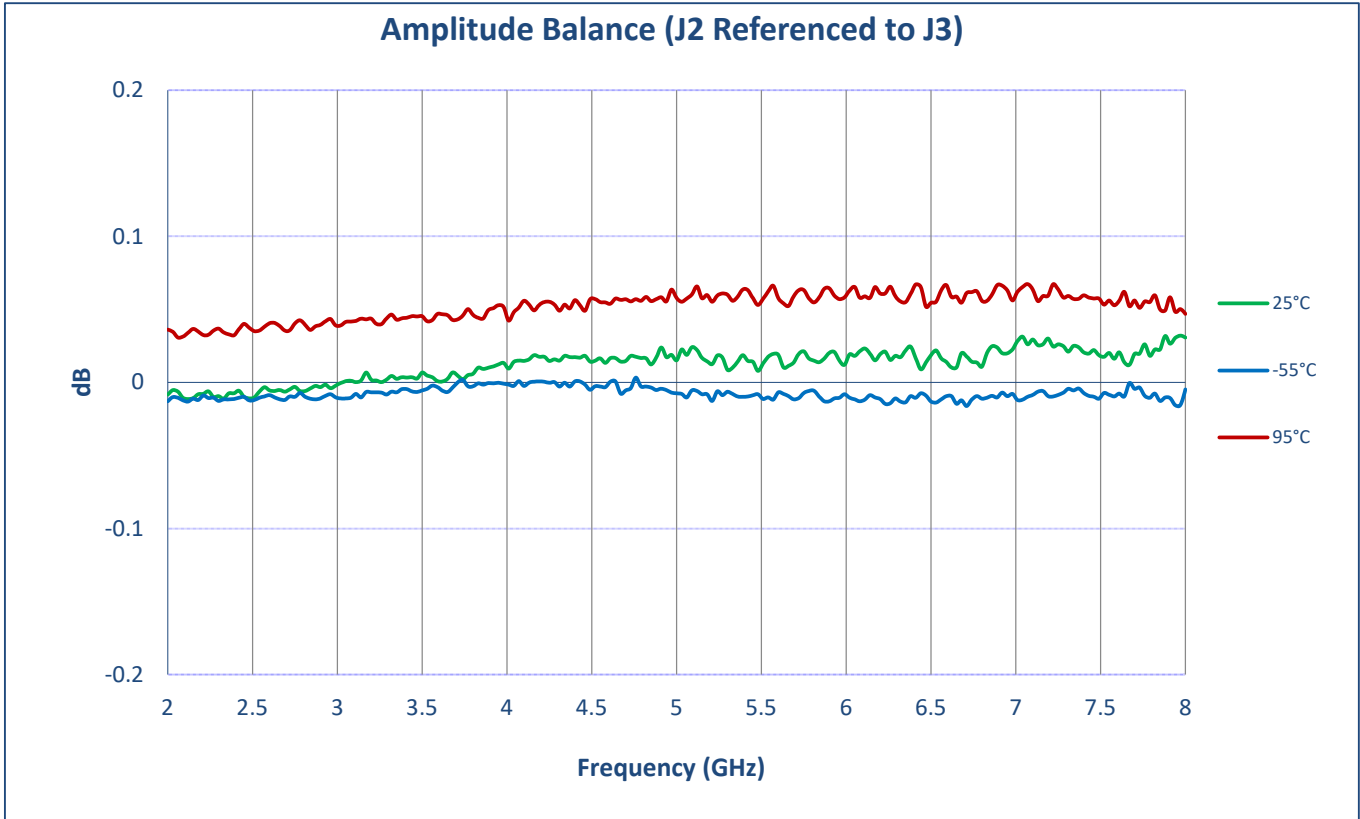
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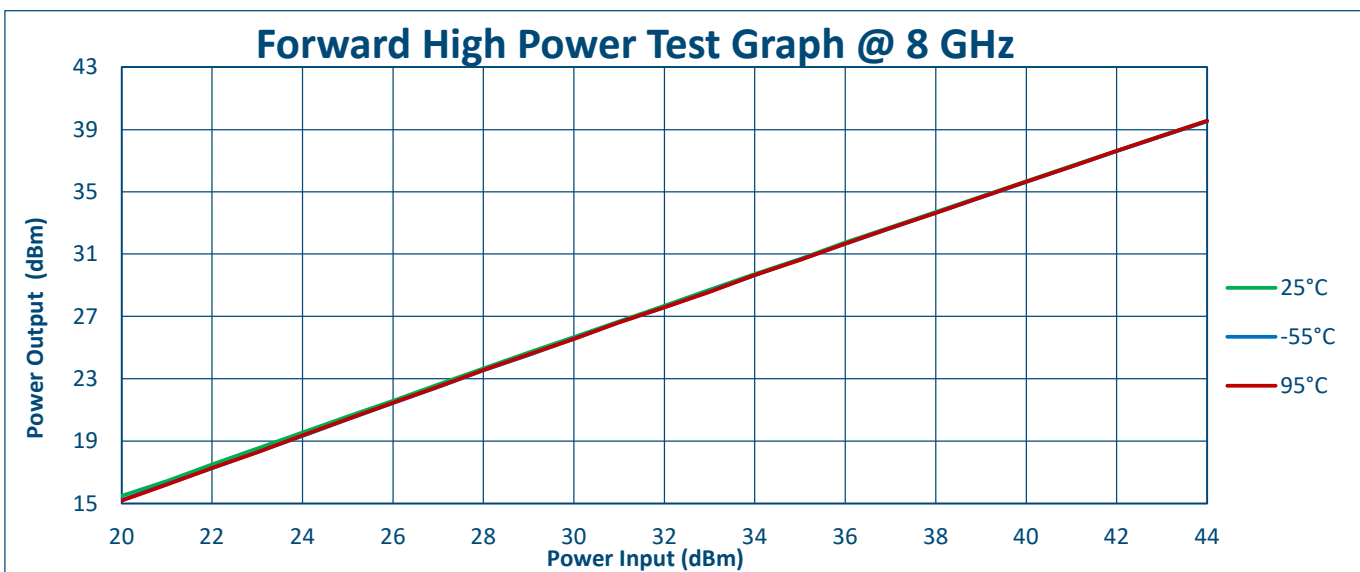
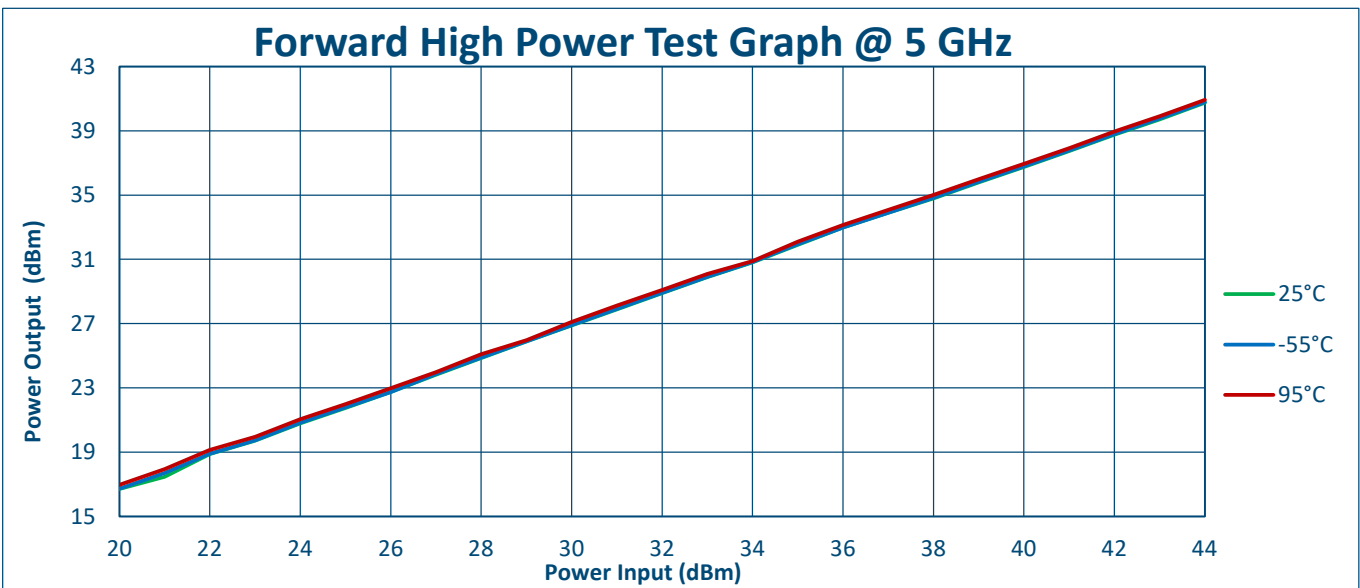
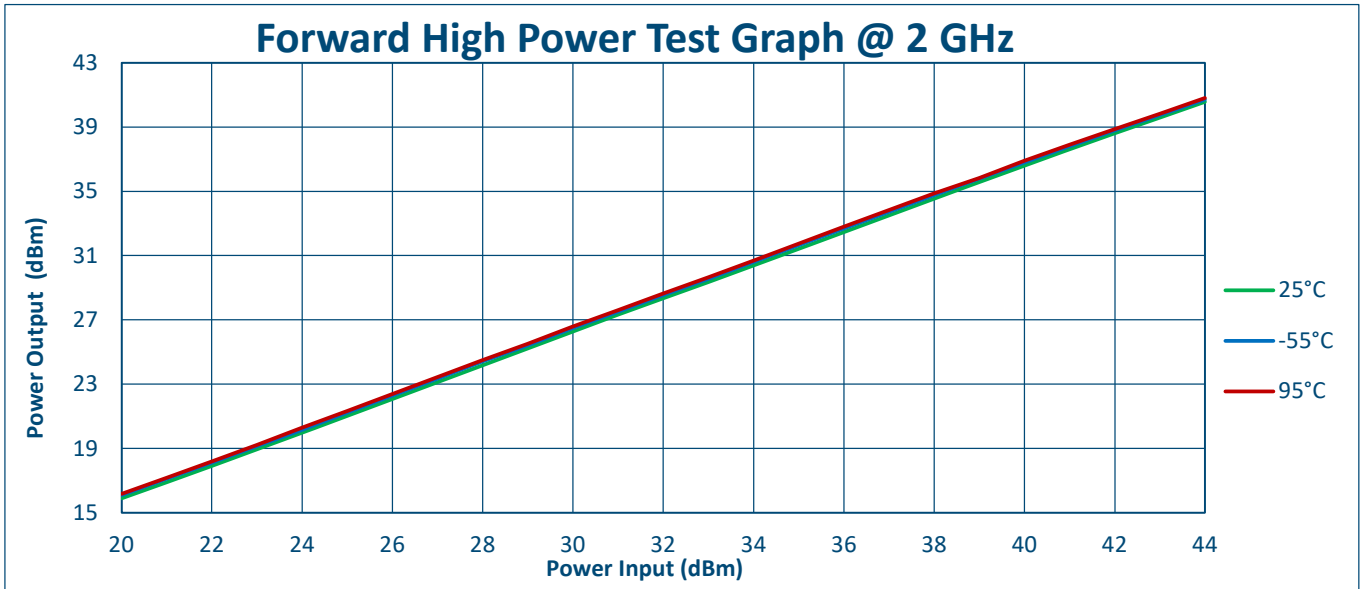
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